

Notice of Allowability

Application No.

09/801,602

Applicant(s)

AMERICA, PETRUS HUBERTUS
MARIA

Examiner

Tuan A. Vu

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/15/2006.
2. ☒ The allowed claim(s) is/are 1-9, 11, 13, 16-18 (renum 1-14).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This action is responsive to the Applicant's response filed 6/15/2006.

As indicated in Applicant's response, claims 1, 3, 9 have been amended, and claim 14 canceled. Claims 1-9, 11, 13, 16-18 are pending in the office action.

EXAMINER'S AMENDMENT

2. The application has been amended as follows:

In the ABSTRACT, the additional line at the end of the main paragraph mentioning about 'No figure' (line 16) has to be removed.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

3. Claims 1-9, 11, 13 and 16-18 are allowed.

The following is an examiner's statement of reasons for allowance.

The prior art taken separately or jointly does not suggest or teach the following features.

A method for simultaneously developing a family of complex systems, the family having common software architecture platform and including a plurality of complex systems, the method supports (i) simultaneous development of several of present members of the family of complex systems as well as later addition of future members of said family; the method comprising (ii) forming an initial requirement object model (ROM), an initial set of use cases based on the initial model, and a initial functional requirement specifications (FRS) including said initial use cases; then amending the ROM based on said initial FRS, and forming additional use cases based on said amendment and changing the FRS based on said additional use cases; and repeating the addition of use cases, the FRS changing step and the amending to the ROM until all desired use cases have been considered and obtaining a final requirement object model

(final ROM); wherein (iii) the additional use cases being thus formed are effected simultaneously with the formation of the amended ROM, thus concurrent with the formation of the changed FRS; as recited in claim 1.

Regnell, “From Requirements to Design with Use Cases”, discloses how to evolve a design from existing stages using evolution and incremental approach via which the consolidation of a component specification via a functional distribution model using further validation and traceability activities as well as multiple incremental projects, thus discloses successively improving as much as possible during the requirements and pre-design stage; but does not specifically follow the paradigm or suggest the very specifics as set forth in (ii) in light of (iii) and support of present and future members of a plurality of families of complex systems as in (i) because Regnell only teaches means to do incremental development from the validation and traceability testing stage backwards; not applying FRS, use case and ROM in a concurrent manner as dictated in the repetitive amending steps as set forth in claim 1.

Heim, “Requirements Management with Use Cases”, or **Rumbaugh**, “UML The View from the Front”, likewise, gives a overall approach on how to exploit the usefulness of use cases to bring about traceability analysis in support of the incremental development/amendment for a particular complex system based upon a Use-case derived design/model that has been sufficiently implemented to undergo verification/regression testing; i.e. not suggesting a repetitive formation of incrementally amended ROM/Use Case/FRS to support development of present and future members of a plurality of families of complex systems as set forth in (i) – (iii) from above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A Vu whose telephone number is (272) 272-3735. The examiner can normally be reached on 8AM-4:30PM/Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571)272-3719.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3735 (for non-official correspondence – please consult Examiner before using) or 571-273-8300 (for official correspondence) or redirected to customer service at 571-272-3609.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kakali Chaki
KAKALI CHAKI
SUPERVISORY PATENT EXAMINER
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